Validation dipole

The validation dipoles are used to check that the entire measurement chain functions correctly, according to the corresponding standards:

FOR SAR MEASUREMENTS:

- One frequency band corresponds to each dipole.
- Each dipole is totally symmetrical (made with l0/4 balun).
- A complete range of dipoles covers the frequency bands used for 5G applications.
- Signals are sent through dipoles in order to take measurements with phantom filled with human equivalent liquid.

FOR HAC MEASUREMENTS:

- For HAC, three broadband dipoles are available.

MAIN FEATURES

Product category

- Dipole, Validation antenna

Function

- Validates the setup of the system, system check

User profile

- SAR and HAC bench users

Related standard:

- IEC/IEEE 62209-1528; FCC related KDBs; IEC 62209-1/ IEC 62209-2; EN 50361:2001; ANSI C63.19

Related equipment:

- COMOSAR bench, HAC bench, handset positioning system

SAR dipoles

Technical & mechanical characteristics

Frequencies	150, 300, 450, 750, 835, 900, 1450, 1500, 1640, 1750, 1800, 1900, 1950, 2000, 2100, 2300, 2450, 2600, 3000, 3300, 3500, 3700, 3900, 4200, 4600, 4900, 5200-5800, 6500-7000 MHz
Adaptation	S11 < -20 dB in specified validation Position
Connectors	SMA-f
Dimensions	Length depends on dipole frequency

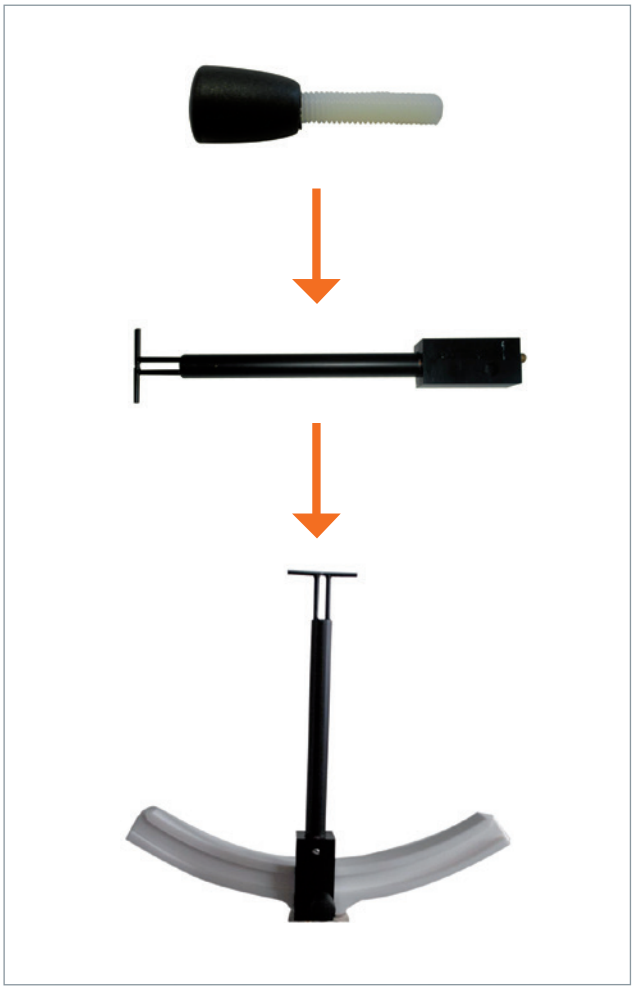
HAC dipoles

Technical & mechanical characteristics

Broadband dipoles	800-950 MHz, 1700-2000 MHz and 2000-2650 MHz
Adaptation	S11 < -10 dB in specified validation Position
Connectors	SMA
Dimensions	Length depends on dipole frequency

HAC validation dipole

The dipoles can be easily fixed to the MVG device positioning system.



To verify the complete operation of the SAR dipole after repeated handling and use, to check the accuracy of each parameter against its specification the recommended calibration interval is 12 months.*

*ILAC-G24/OIML D10